

FIG. 1

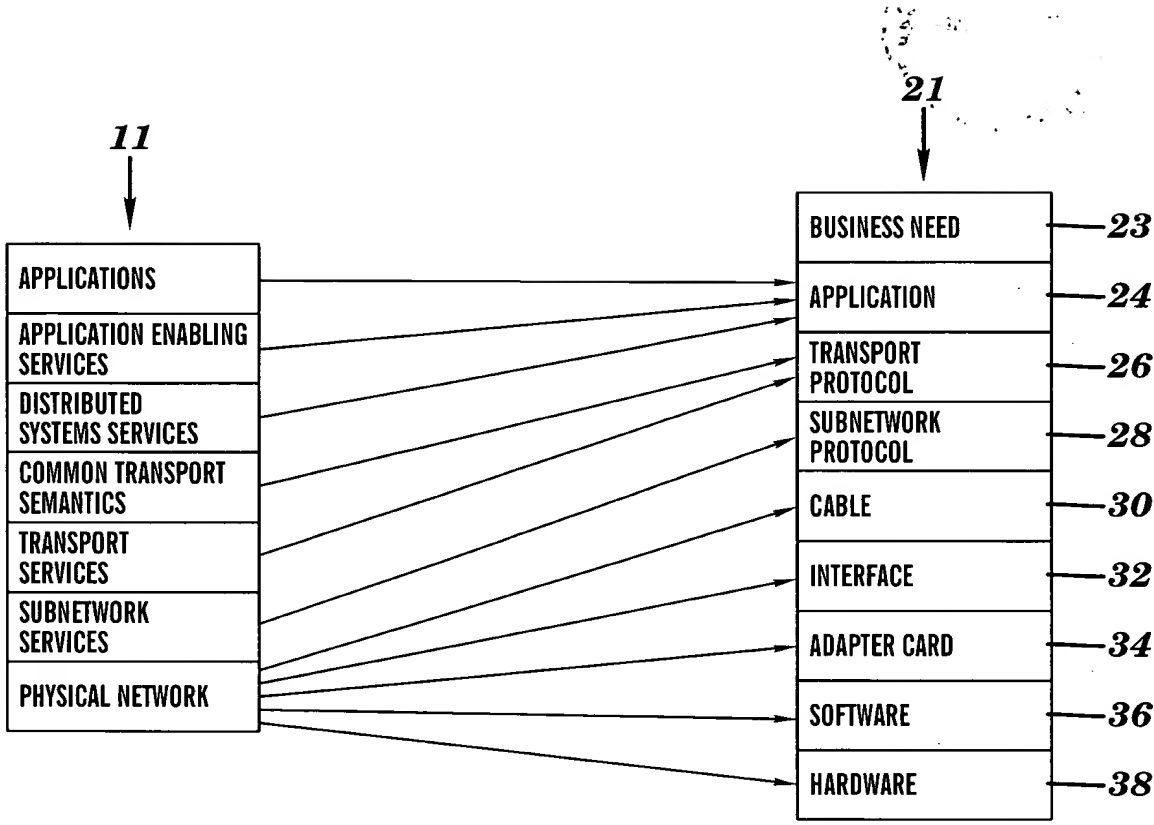


FIG. 2

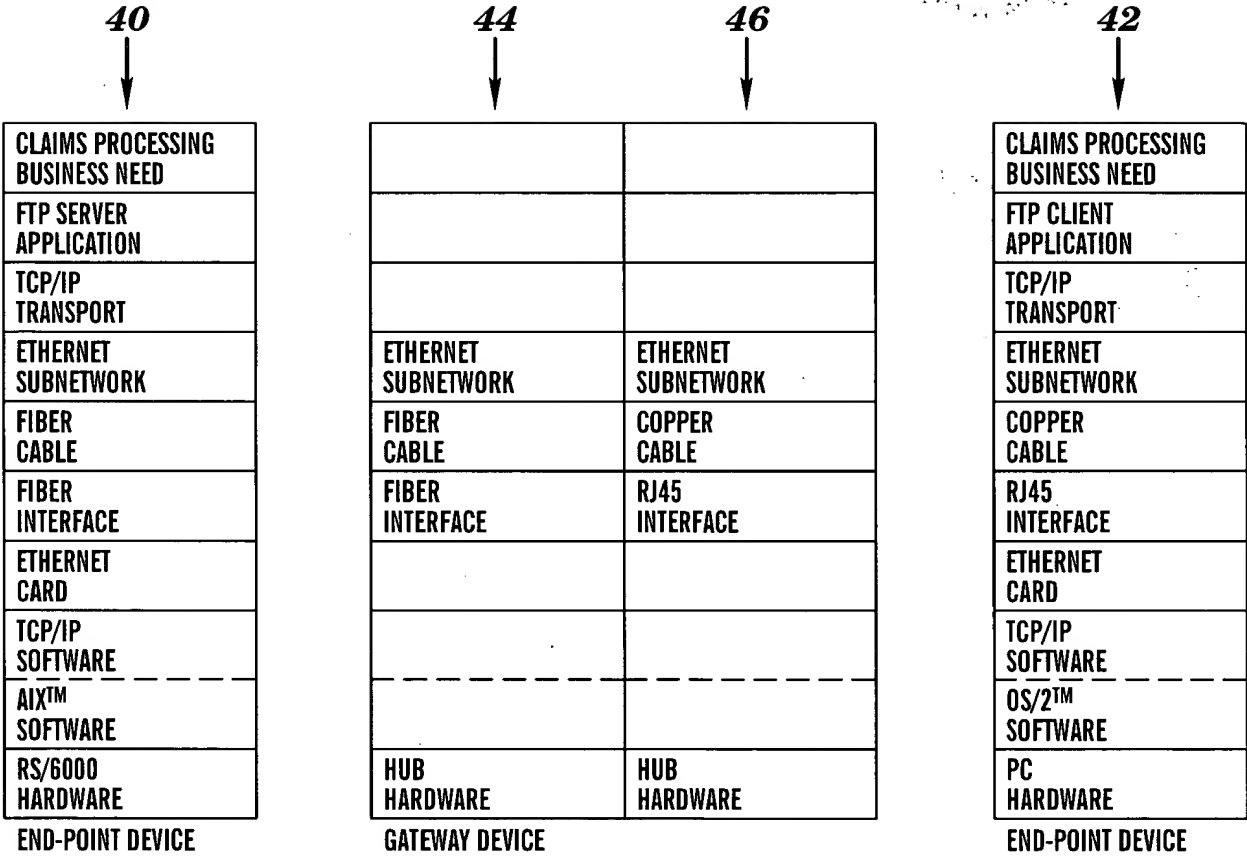


FIG. 3

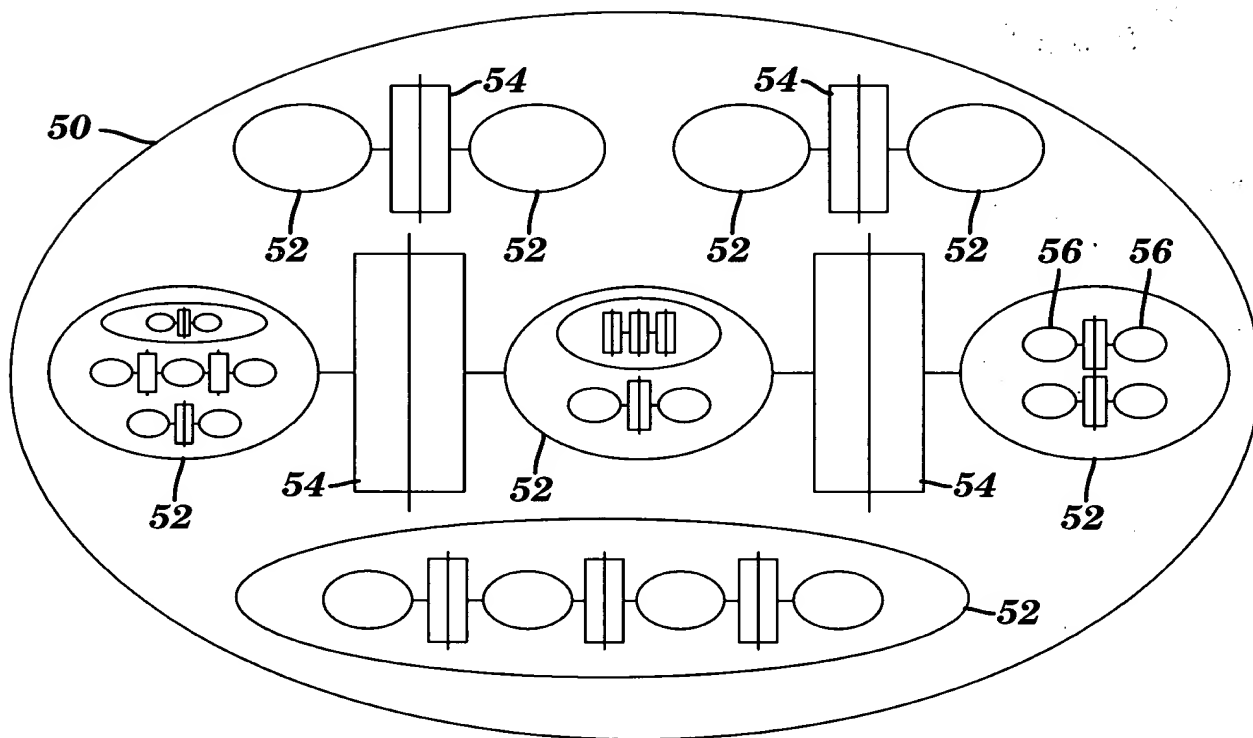


FIG. 4

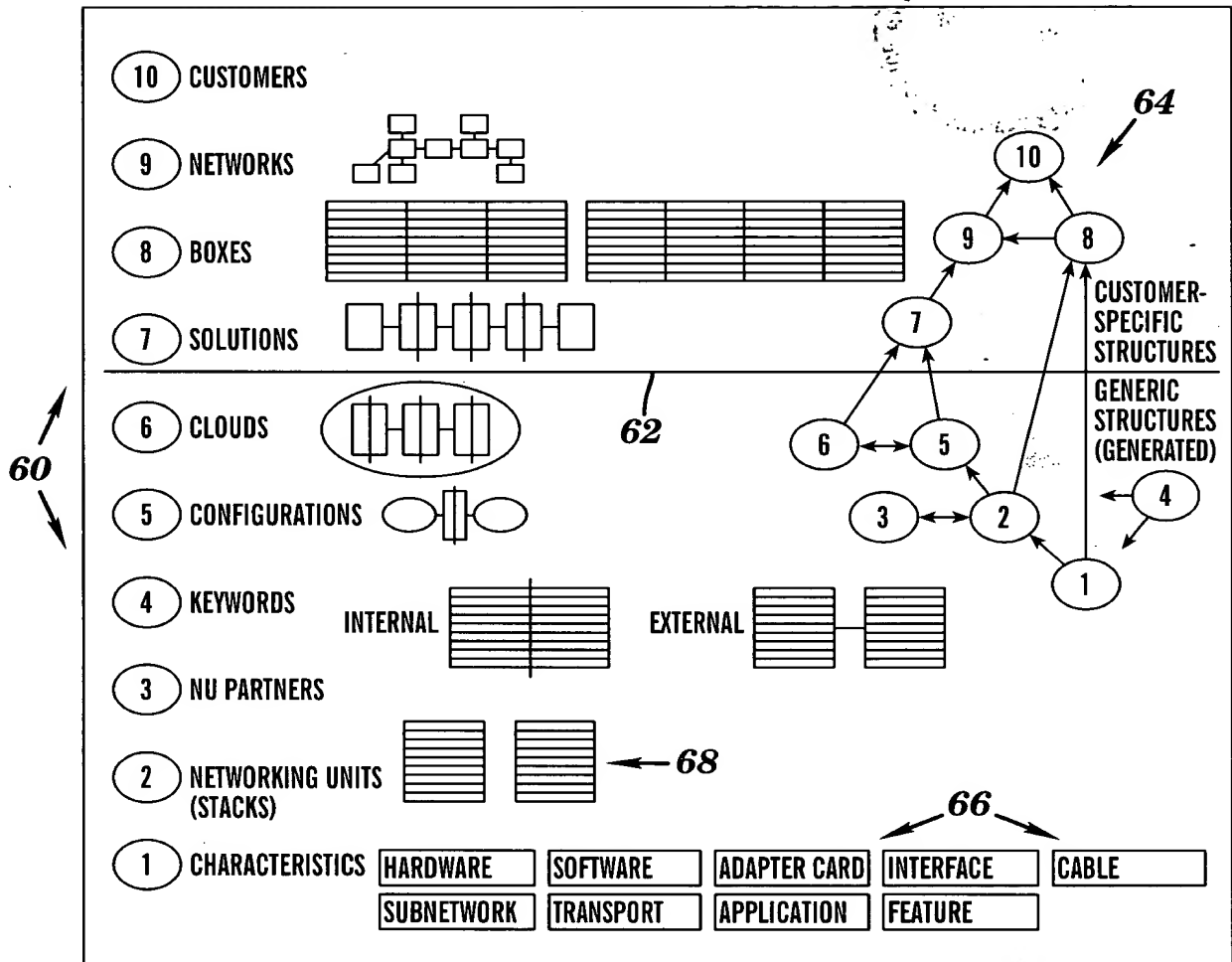


FIG. 5

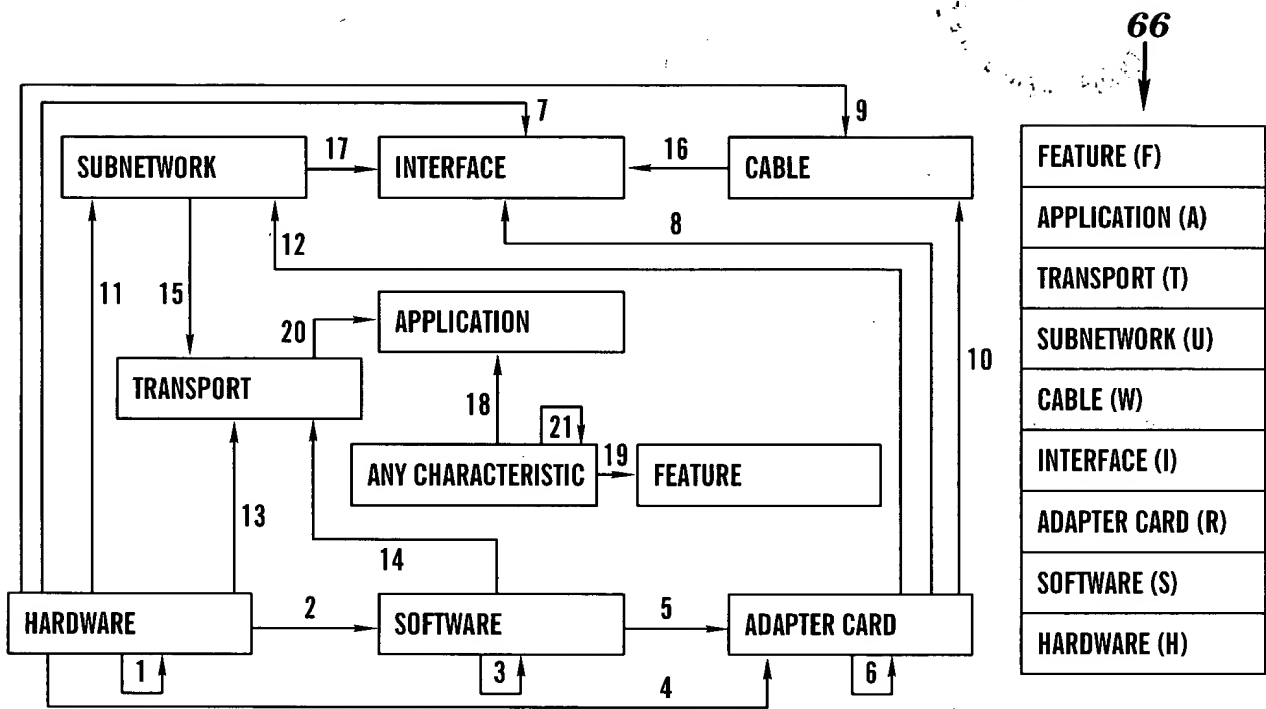


FIG. 6

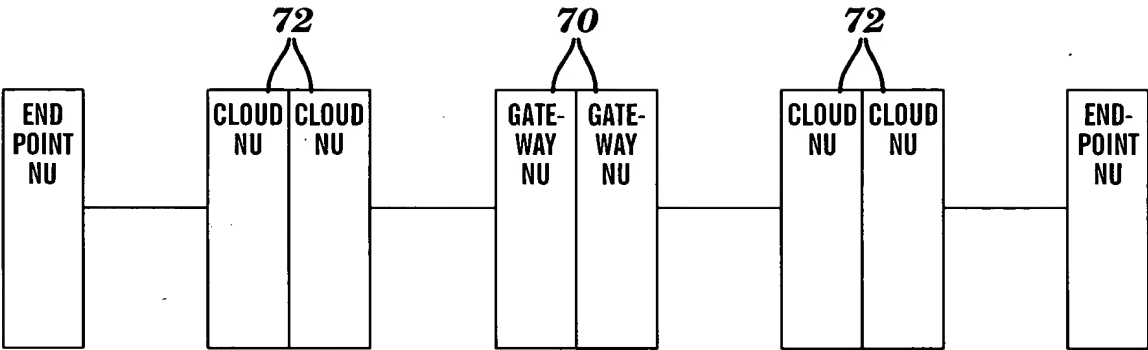
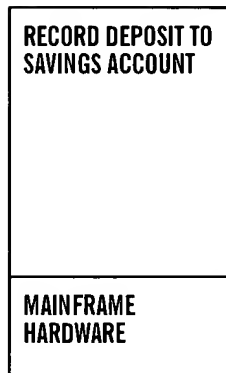


FIG. 7

NU Type (Name)	Purpose	Contains Characteristics of Type	Referenced by Configuration Found In	Replaced By
1 (Product application)	End point (product-specific)	All types		
2 (Product)	Gateway (product-specific)	All types but application		
3 (Generic interface)	Gateway	Interface, cable, subnetwork, transport	Subnetwork cloud	Type 1 or Type 2 NU
4 (Generic subnetwork application)	Gateway	Subnetwork, transport, application		Type 1 NU
5 (Generic subnetwork)	Gateway	Subnetwork, transport	Bridged or transport cloud	Type 3 NU
6 (Generic transport application)	Gateway	Transport, application		Type 4 NU
7 (Generic transport)	Gateway	Transport	Application cloud	Type 5 NU
8 (Generic application)	Gateway	Application	Business need cloud	Type 6 NU
9 (Subnetwork cloud)	Cloud	Subnetwork	Bridged or transport cloud	Configuration
10 (Bridged cloud)	Cloud	Subnetwork	Transport cloud	Configuration
11 (Transport cloud)	Cloud	Transport	Application cloud	Configuration
12 (Application cloud)	Cloud	Application	Business need cloud	Configuration
13 (Null)	Represents a cable	Feature	Bridged or transport cloud	

FIG. 8

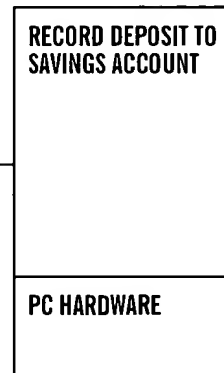
1. MAINFRAME END POINT



APPLICATION NU



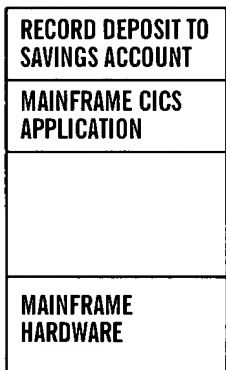
TELLER PC END POINT



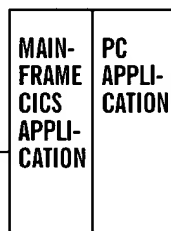
APPLICATION NU

1. THE SOLUTION STARTS WITH A BUSINESS NEED CLOUD CONNECTING TWO END POINTS. THE BUSINESS NEED CLOUD IS REPLACED WITH A CONFIGURATION THAT CONTAINS TWO APPLICATION CLOUDS CONNECTED BY AN APPLICATION GATEWAY.

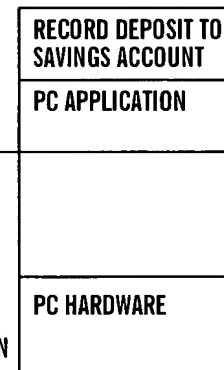
2. MAINFRAME END POINT



APPLICATION NU



TELLER PC END POINT

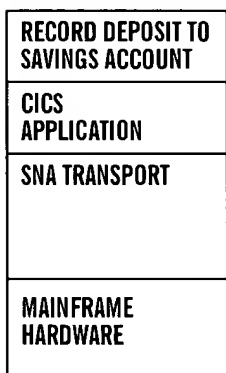


APPLICATION NU

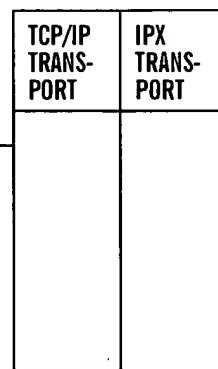
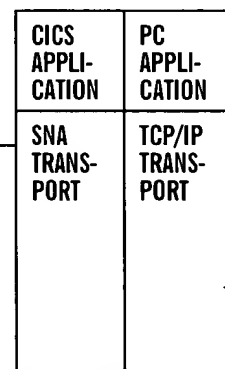
2. THE MAINFRAME CICS APPLICATION CLOUD IS REPLACED BY A CONFIGURATION THAT CONTAINS ONLY AN SNA TRANSPORT CLOUD, BECAUSE THE MAINFRAME END POINT AND THE APPLICATION GATEWAY BOTH USE SNA AS THE TRANSPORT PROTOCOL.

THE PC APPLICATION CLOUD IS REPLACED BY A CONFIGURATION THAT CONTAINS TWO TRANSPORT CLOUDS, CONNECTED VIA A TRANSPORT GATEWAY, BECAUSE THE APPLICATION GATEWAY AND THE PC END POINT USE DIFFERENT TRANSPORT PROTOCOLS.

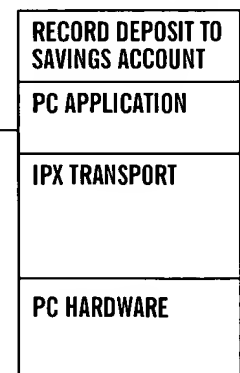
3. MAINFRAME END POINT



APPLICATION NU



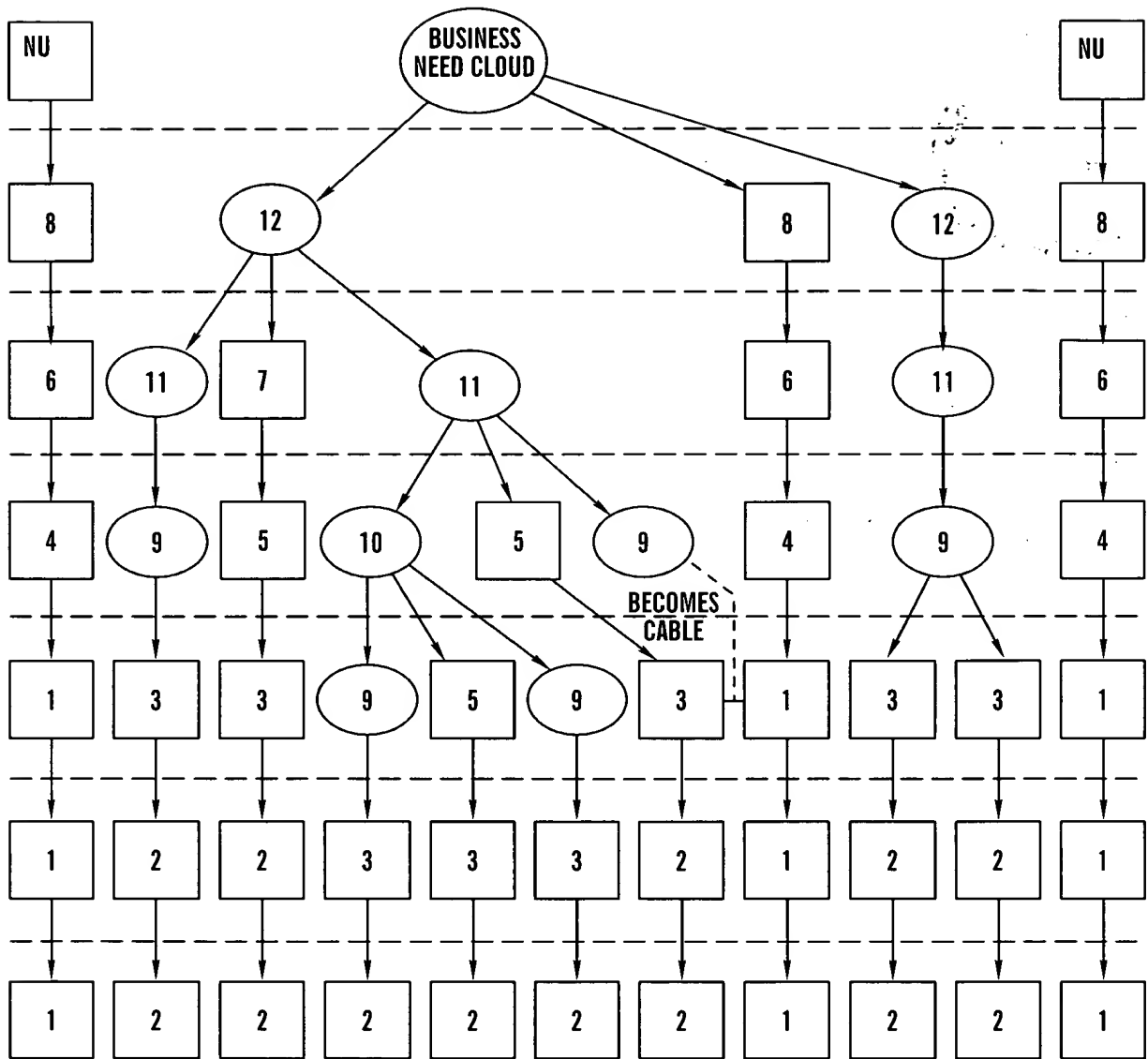
TELLER PC END POINT



APPLICATION NU

3. NOTICE THAT THE TWO END POINTS AND THE APPLICATION GATEWAY NOW HAVE KNOWLEDGE OF THE CHOSEN TRANSPORT PROTOCOLS. AS THE THREE TRANSPORT CLOUDS GET REPLACED, ALL FOUR OF THESE BOXES WILL HAVE KNOWLEDGE OF THE CHOSEN SUBNETWORK PROTOCOLS. EVENTUALLY, AS THE PROCESS CONTINUES, ALL NINE LAYERS IN EVERY DEVICE WILL BE FILLED IN. NONE OF THE BOXES EVER GOES AWAY, THOUGH ONLY CLOUDS WILL DISAPPEAR.

FIG. 9



1 PRODUCT APPLICATION
END POINT
2 PRODUCT-SPECIFIC
GATEWAY
3 GENERIC INTERFACE
GATEWAY

4 GENERIC SUBNETWORK
APPLICATION GATEWAY
5 GENERIC SUBNETWORK
GATEWAY
6 GENERIC TRANSPORT
APPLICATION GATEWAY

7 GENERIC TRANSPORT
GATEWAY
8 GENERIC APPLICATION
GATEWAY
9 SUBNETWORK
CLOUD

10 BRIDGED
CLOUD
11 TRANSPORT
CLOUD
12 APPLICATION
CLOUD

FIG. 10

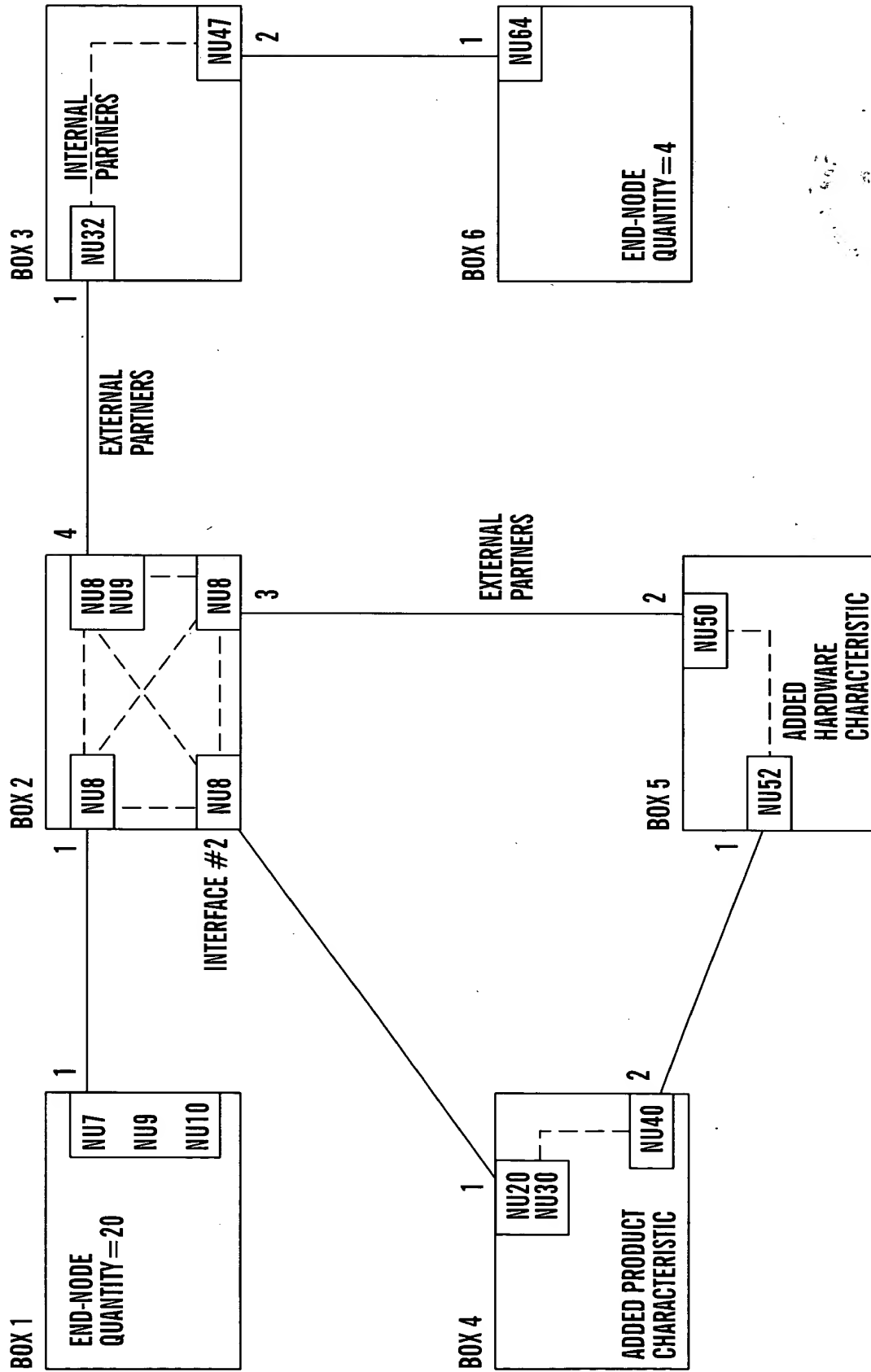


FIG. 11

	A8	T7	U7	W7	12	R5	S20	H2
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N4

The diagram illustrates a network architecture with four main cloud components and their interconnections:

- BUSINESS NEED CLOUD** (Top): Contains a single router labeled **A7**.
- APPLICATION CLOUD** (Middle-Left): Contains a **TRANSPORT CLOUD** (with routers **T6** and **T7**) and a **TRANSPORT GATEWAY** (with routers **F6**, **T6**, **T7**, **U1**, **U4**, **W4**, **W5**, **W6**, **W7**, **W9**, **W15**, **W19**, **R3**, **R4**, **R5**, **S3**, **S4**, **S7**, **S30**, **H17**, **H7**, **H17**).
- TRANSPORT CLOUD** (Middle-Right): Contains a **SUBNETWORK CLOUD** (with routers **U4**, **U7**) and a **ROUTER** (with routers **T7**, **U4**, **U7**, **W5**, **W6**, **W7**, **W9**, **W15**, **W19**, **R3**, **R4**, **R5**, **S4**, **S7**, **S30**, **H6**, **H7**, **H17**).
- BRIDGED CLOUD** (Bottom): Contains a **SUBNETWORK CLOUD** (with routers **U7**, **U7**) and a **BRIDGE** (with routers **F3**, **F3**, **U7**, **W7**, **W7**, **W9**, **W15**, **W19**, **R3**, **R4**, **R5**, **S4**, **S7**, **S30**, **H4**, **H7**, **H17**).

Interconnections are shown with labels: **N90**, **N25**, **N26**, **N80**, **N15**, **N20**, **N70**, **N70**, **N30**, **N40**, **N60**, **N60**, **N50**, **N55**, **N7**, **N7**.

FIG. 12

F4	A7	T5	U1	W3	17	R7	S10	H3
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N14

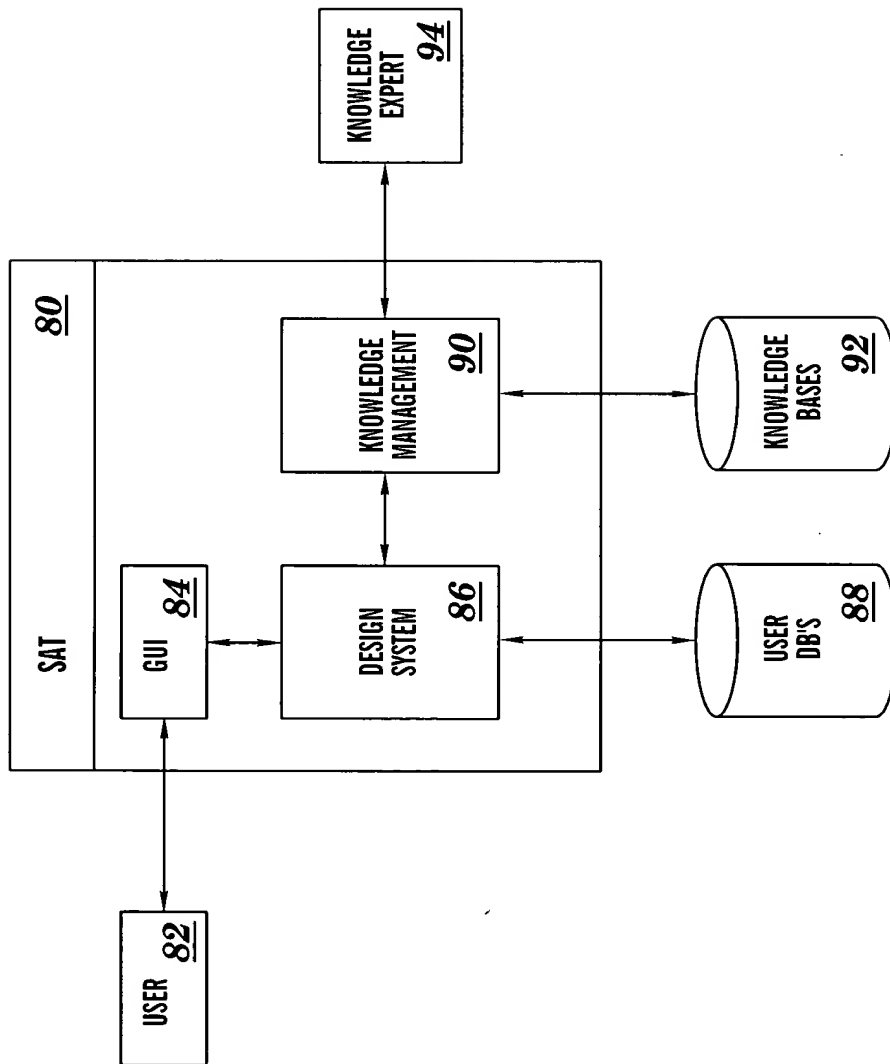


FIG. 13